

OIPE

RAW SEQUENCE LISTING

DATE: 10/01/2001

PATENT APPLICATION: US/09/733,607

TIME: 15:13:44

Input Set : A:\NI4447.txt

Output Set: N:\CRF3\10012001\I733607.raw

4 <110> APPLICANT: Tononi, Giulio
5 Cirelli, Chiara
6 Shaw, Paul J.
7 Greenspan, Ralph J.
9 <120> TITLE OF INVENTION: Vigilance Nucleic Acids and Related
10 Diagnostic, Screening and Therapeutic Methods
13 <130> FILE REFERENCE: P-NI 4447
15 <140> CURRENT APPLICATION NUMBER: US 09/733,607
C--> 16 <141> CURRENT FILING DATE: 2001-09-10
18 <150> PRIOR APPLICATION NUMBER: US 09/456,785
19 <151> PRIOR FILING DATE: 1999-12-08
21 <160> NUMBER OF SEQ ID NOS: 27
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 317
27 <212> TYPE: DNA
28 <213> ORGANISM: Drosophila
30 <400> SEQUENCE: 1
31 catcccagtt acgcacagct aggagagata agttaacaga ttggatttgc gtcgatcgga 60
32 ttgaatctgc ctaactgctg tcttgcaggg ctgtaggctt cgggtccaaa ttaagtctac 120
33 agtctctgcg attccgggca gttgaaatga tgcaagatga gaggtcagt ccataacact 180
34 taacgctttg tgcaccgtac aatttagtac ccgacattcc ttgagagcta gacggcacca 240
35 gacgtcccaa cttaccaa atattctttt tgctctatct atatgtatgt cgcatactta 300
36 gtttatgcta gttgtag 317
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 356
40 <212> TYPE: DNA
41 <213> ORGANISM: Drosophila
43 <400> SEQUENCE: 2
44 accttctaac ctcatcacaca cacacgggat cttttcttat agggggcctg ctttcaaaac 60
45 tattttctgcg gactcctgta attcatcctg tctgtctgctt tccattatta cacgttctca 120
46 acgtccacaa gattgcttca aaccgatctg tctctatccc gcatctgctt gcccgggtat 180
47 cgttttgata tgtgaatgcc ttacacgata cacgcttttg aaagabccsc ccagtccaac 240
48 ccgaatcccc ccacggccct tttttccacc aatctcgcaa gatgccttgc tctgttttga 300
49 aatagctttt yygaagacgr aagatcaaga caaatcaaat caaatcgatc caattt 356
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 393
53 <212> TYPE: DNA
54 <213> ORGANISM: Drosophila
56 <400> SEQUENCE: 3
57 gcccttcgtg aattcgcttt ctaccgcgtg tgacattctc cgttgagct ggtattaaag 60
58 tgctaatggg catcgacttt gctggcgctg tgatgggctg gaagttcttc gatcacgcag 120
59 cscatttggg cggcgcatgt ttggcatctt ttgggccacg tatggggcac agatatgggc 180
60 aaagcgcatt ggtctactga attactacca tgacctgcgc cggacgaagc agaaatagta 240
61 caggaggctt ggggattcgc caagtgaacg gacggggagc tgaggcaata gagcggctrr 300
62 ggtagcacta cgctgtgtca ataagagtga catcgttctg ccttagaagt tcattgaaat 360
63 cagttaagtt gaataaatcg ttgacatcct gat 393

ENTERED

RAW SEQUENCE LISTING

DATE: 10/01/2001

PATENT APPLICATION: US/09/733,607

TIME: 15:13:44

Input Set : A:\NI4447.txt

Output Set: N:\CRF3\10012001\I733607.raw

```

65 <210> SEQ ID NO: 4
66 <211> LENGTH: 505
67 <212> TYPE: DNA
68 <213> ORGANISM: Drosophila
70 <400> SEQUENCE: 4
71 gcccttcgga attcggtttt ttttttttcc ctcatgctcc cgactaaaaa gttcttttaa 60
72 gttaagtaag gcaccacgac ttatattagc aacaactggt gtttcttggt ttttctcaca 120
73 attagaaaga aattgaaatg gaaactcatt tagatcatag gcttcttcct tattgacacg 180
74 atactcttct ttcgttttat ctattatctc ctctaaatac tcttttacat caacactatc 240
75 atcaattaaa ctagcaatct tcccattttt tacaataaag ttagtatgag gaggatccaa 300
76 agcataatca ttttaagttaa accaataaag caatgcttta aacaactttt cttcttcctt 360
77 ttccttagta acttgctggt tttttagggt cctcattaga aacctcagga ttttaagaatg 420
78 ttgaatcatc ccatgctata ggagaagaaa tcsatgatga tctactccaa gatagctgkg 480
79 attgatcmtc agtggattga ctgaa 505
81 <210> SEQ ID NO: 5
82 <211> LENGTH: 169
83 <212> TYPE: DNA
84 <213> ORGANISM: Drosophila
86 <400> SEQUENCE: 5
87 gcccttctga ctactgagc ctccgcccct accaacccca ggtgttcctc agcctcgtaa 60
88 ctggcccagc ttccaggata cggacctctg agtccgggtt cgataccccc acaaccacaa 120
89 tcacgatcac gaagaagact ccggcgaaga taagcccaag gacaagtct 169
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 291
93 <212> TYPE: DNA
94 <213> ORGANISM: Drosophila
96 <400> SEQUENCE: 6
97 tgccggatgt taacataggr gttagtctaa aggtctgcga gagcatcgac aaggagctta 60
98 gatcatccta caatcagcag aggcagcagc aacgcaaggv agccaaamvg gagcagcagg 120
99 tgacgcgggc agaaacgtac gattccatta gacgttttgg acgcgcccac caaaaagcca 180
100 ggcaaaaggg aataccaggm aagggaaaaga gaacgtgaaa aagaggcgctc agcggtcttt 240
101 caggaaacgg acaaggaaaag gggaammccc ccccccsaa ttccggaggg c 291
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 267
105 <212> TYPE: DNA
106 <213> ORGANISM: Drosophila
108 <400> SEQUENCE: 7
109 gttagcctac ggatatgtaa agcgggtcaag agaaacagac aaatgttata tgtataagcg 60
110 aataatgttg tccaattcc tgcgatatat gcgaatatat cggggaatcg gactgtattg 120
111 tattgatgag atatagaaga aagagagaga gagaggagcc agggagctgc gggtcgtgcg 180
112 gaggaggaga ataggctgat gaggaatggg aacggcgaaa gagcaagaga taaaccacga 240
113 aatcatacgg aaaccactag agagcag 267
115 <210> SEQ ID NO: 8
116 <211> LENGTH: 225
117 <212> TYPE: DNA
118 <213> ORGANISM: rattus
120 <400> SEQUENCE: 8
121 gttctttttt ttccggagct ggggactgaa cccagggcct tgcgcttcct aggtaaggga 60
122 tctacctcgc agctaaatcc ccagcccca gctcactggt cttaaagggc tccaggagtc 120

```

RAW SEQUENCE LISTING

DATE: 10/01/2001

PATENT APPLICATION: US/09/733,607

TIME: 15:13:44

Input Set : A:\NI4447.txt

Output Set: N:\CRF3\10012001\I733607.raw

```

123 attttatata caaggggaact gaagcatgaa ggggttagatc acctgctcag gctccctaca 180
124 gcttgtcagt gattagcaaa ttactctgtc aggtttcctc aagta 225
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 219
128 <212> TYPE: DNA
129 <213> ORGANISM: rattus
131 <400> SEQUENCE: 9
132 gctttggctt tttggcagta cagggtttct cttttagacc ctggatgtct tggaactcac 60
133 gttgtagaac aggtctggcct tggcactcag aaatccatca gcctttgcct cacaccactt 120
134 tgcaactgtc atctcttaaa tgcaaattat attatttgct gaaatttaaa atattgtttt 180
135 gtgactacat tatgtggtgc tttgtatatg ctgccccca 219
137 <210> SEQ ID NO: 10
138 <211> LENGTH: 213
139 <212> TYPE: DNA
140 <213> ORGANISM: rattus
142 <400> SEQUENCE: 10
143 ttttccagtg ggagttataa ctcagcaatc tctttgtata ggagtataa aaacaatcaa 60
144 atgttgtcaa gctagaacaa tgtacacaag aatttaattt gatgtcccat gaggggtatg 120
145 ttttctctat gctcaaccct tagaggcaat cagggtaaat taccaaatta ccaaattata 180
146 cgaaaagcca ggctagataa agattatatt ttc 213
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 205
150 <212> TYPE: DNA
151 <213> ORGANISM: rattus
153 <400> SEQUENCE: 11
154 tagctactta aagttaaaaa tcactctaatt atttgtatca tagaaactca aaaaaaaaaa 60
155 gaaaatcaca gaaacataat caaatgggag aaggcaggag agaattgtct caacagattt 120
156 aagttggctg ttgggactga ggaggagagg acctgatgaa aagaccatgc tctggggaca 180
157 gggatacctt agattctctg tctac 205
159 <210> SEQ ID NO: 12
160 <211> LENGTH: 154
161 <212> TYPE: DNA
162 <213> ORGANISM: rattus
164 <400> SEQUENCE: 12
165 aagttcagtt atacttttaa atggtttggt cgtgaatctt ctcttatggt cttcttaaga 60
166 aaattgcaa gttcatcaga gttagacatt aagaaaataa taagaatatt gaggacgtgt 120
167 gttataggaa tgtaattttc caagcaacca gtac 154
169 <210> SEQ ID NO: 13
170 <211> LENGTH: 167
171 <212> TYPE: DNA
172 <213> ORGANISM: rattus
174 <400> SEQUENCE: 13
175 ctgaaagggt gagttgatta gagaaaaaaa ataattaaga ccaaagtgtc gtgtttgggt 60
176 ttccatttgg aactgtgaat cttggcaaaag accaccctaa ctttgacttg ctaccaggc 120
177 actcaccttc tgccttcta tctcttgtct tcaccttcag ctcaaga 167
179 <210> SEQ ID NO: 14
180 <211> LENGTH: 244
181 <212> TYPE: DNA
182 <213> ORGANISM: rattus

```

RAW SEQUENCE LISTING

DATE: 10/01/2001

PATENT APPLICATION: US/09/733,607

TIME: 15:13:44

Input Set : A:\NI4447.txt

Output Set: N:\CRF3\10012001\I733607.raw

```

184 <400> SEQUENCE: 14
185 cggagctggg gaccgaaccc agggccttgc gcttcctagg caggcactct accactgagc 60
186 taaatcccca acccctcaat gttttgaaaa gacggtaaata accttggtgct ttaagaataa 120
187 acaggctaga gcgatggctc aggggataag gcctgtatat aagccatgct cacacgtcac 180
188 agtgaataca tagctcaaat gactaaactg agtctaaatt actaaaggga agcagcattt 240
189 gtgc 244
191 <210> SEQ ID NO: 15
192 <211> LENGTH: 263
193 <212> TYPE: DNA
194 <213> ORGANISM: rattus
196 <400> SEQUENCE: 15
197 catgttcttt tctacttggg tcaaaaatacy gcagttaatct tgctgggcaa tgcagacaaa 60
198 ctggcagtca tccaccttgg tcctcatgac tcctttcatg tactctttgt ccatgggtggg 120
199 cgaaacacca aagctgtttc ccatgcacag tattttctgct ttcccatctg gatacgtcac 180
200 ctccaccgaa ccattgagaa tctactgacca ggaatccagc tcttctccat catttaacac 240
201 aatgggttcca gctctttcca cca 263
203 <210> SEQ ID NO: 16
204 <211> LENGTH: 121
205 <212> TYPE: DNA
206 <213> ORGANISM: rattus
208 <400> SEQUENCE: 16
209 tatatttatg gacatctaag taggttccat ttcctctctg ttgtaaataa tgcattcata 60
210 aatgcaaatg tagaagggtg ccttgtagta ggtagttaag agccctctga atatacagcc 120
211 t 121
213 <210> SEQ ID NO: 17
214 <211> LENGTH: 82
215 <212> TYPE: DNA
216 <213> ORGANISM: rattus
218 <400> SEQUENCE: 17
219 tgtgggtactt catacaaaga atattagaaa agggatatgca aaaggaagac agttaagtgg 60
220 tagatggctg cccaagaaat gc 82
222 <210> SEQ ID NO: 18
223 <211> LENGTH: 114
224 <212> TYPE: DNA
225 <213> ORGANISM: rattus
227 <400> SEQUENCE: 18
228 ttacgggctg tgagctctcg agttgcgacc gccttattca gtttacagct gggtagattt 60
229 ttaaggagtg agacccaaag taataaacct gtgattgtag catgcacaac tcag 114
231 <210> SEQ ID NO: 19
232 <211> LENGTH: 138
233 <212> TYPE: DNA
234 <213> ORGANISM: rattus
236 <400> SEQUENCE: 19
237 gaataataga actttttaca gccaaaggaca ttgcatgtgt acgacgcac cctgaagtgt 60
238 tgtgcttcat ggtggtaaag ctgacccaag tcaactgaaca caatattgca gccattcaac 120
239 tcacatttgt aacggagg 138
241 <210> SEQ ID NO: 20
242 <211> LENGTH: 221
243 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/733,607

DATE: 10/01/2001

TIME: 15:13:44

Input Set : A:\NI4447.txt

Output Set: N:\CRF3\10012001\I733607.raw

```

244 <213> ORGANISM: rattus
246 <400> SEQUENCE: 20
247 cttctgcctt ctgactactg ggattaatga catgtgccac aacccccatc ttctaataat 60
248 gttttaaata cttaagatta aataaatagt acagggtgatt tttttaaaaa aaatgtacaa 120
249 cagtcacatcat gtttttaaac ctcctgaaaa ttactgtatt ctcacatcat attttgaaa 180
250 gagctttaat aacaaaaaatt atcacatata tttctcagag a 221
252 <210> SEQ ID NO: 21
253 <211> LENGTH: 219
254 <212> TYPE: DNA
255 <213> ORGANISM: rattus
257 <400> SEQUENCE: 21
258 agatttattt attatgtaga cagcgttcca cctgcatgta cacgtgcagg ccagaagagg 60
259 gcaccagatc tcattacaga tggttgtgag cccaccatgt ggttgctggg aattgaactc 120
260 atgacctctg gaagagcaat tagtgctctt aaccactgag ccattctctc agccccacga 180
261 tgaggttctt aagagctgca accaagtggg ggacgataa 219
263 <210> SEQ ID NO: 22
264 <211> LENGTH: 215
265 <212> TYPE: DNA
266 <213> ORGANISM: rattus
268 <400> SEQUENCE: 22
269 ctgtcagggc tcaggaaaca ctgtgaaaga ggaagtgaat aaatgtgaga gtcagagggt 60
270 ggggtggaag gctatggaat gctgccttat agatacgaca tggctactgc agatgtgcat 120
271 tcacagtaac cacgattacc tacataatat caaggcagtc acattccagc atggataagg 180
272 gagaagggtca taagaagtat tgtcagtggg tagaa 215
274 <210> SEQ ID NO: 23
275 <211> LENGTH: 106
276 <212> TYPE: DNA
277 <213> ORGANISM: rattus
279 <400> SEQUENCE: 23
280 aggaatgcat ctacactcta agtaaaattg attcgttcta atttccgtgt cagttactgc 60
281 tgtagtctgc tctgtcttag cgctatgac cgaattcacg aagggc 106
283 <210> SEQ ID NO: 24
284 <211> LENGTH: 154
285 <212> TYPE: DNA
286 <213> ORGANISM: rattus
288 <400> SEQUENCE: 24
289 cagcagttct ttccatcttc ttaattggcg ataattttct tcattaagta gaactattca 60
290 ttatgcagag taccattgtg gagatgcaaa tacagcccag gtattcggac agcaaagaca 120
291 aagtgttatt gtggttaaggc ctgagttatc aaaa 154
293 <210> SEQ ID NO: 25
294 <211> LENGTH: 337
295 <212> TYPE: DNA
296 <213> ORGANISM: rattus
298 <400> SEQUENCE: 25
299 agactcaggt cataaatcaa agaacattgt gtacattgct tctttggatc tgagactggg 60
300 agtgtccctg ggctcctatg agggcatcat cagaagatga acaagggtgac tkttggggat 120
301 gctttctgga tggggaatga cttggctatg cctggscgca tgttggtgtg kgaactgttt 180
302 cctcgsgttc cctcggtttc tctctttgta graagtgcta agktttgtac ctcaaagcat 240
303 actaggtcat gtctctatac tatattccta aagggtccac agctacccta atctaccctg 300

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/733,607

DATE: 10/01/2001

TIME: 15:13:45

Input Set : A:\NI4447.txt

Output Set: N:\CRF3\10012001\I733607.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date